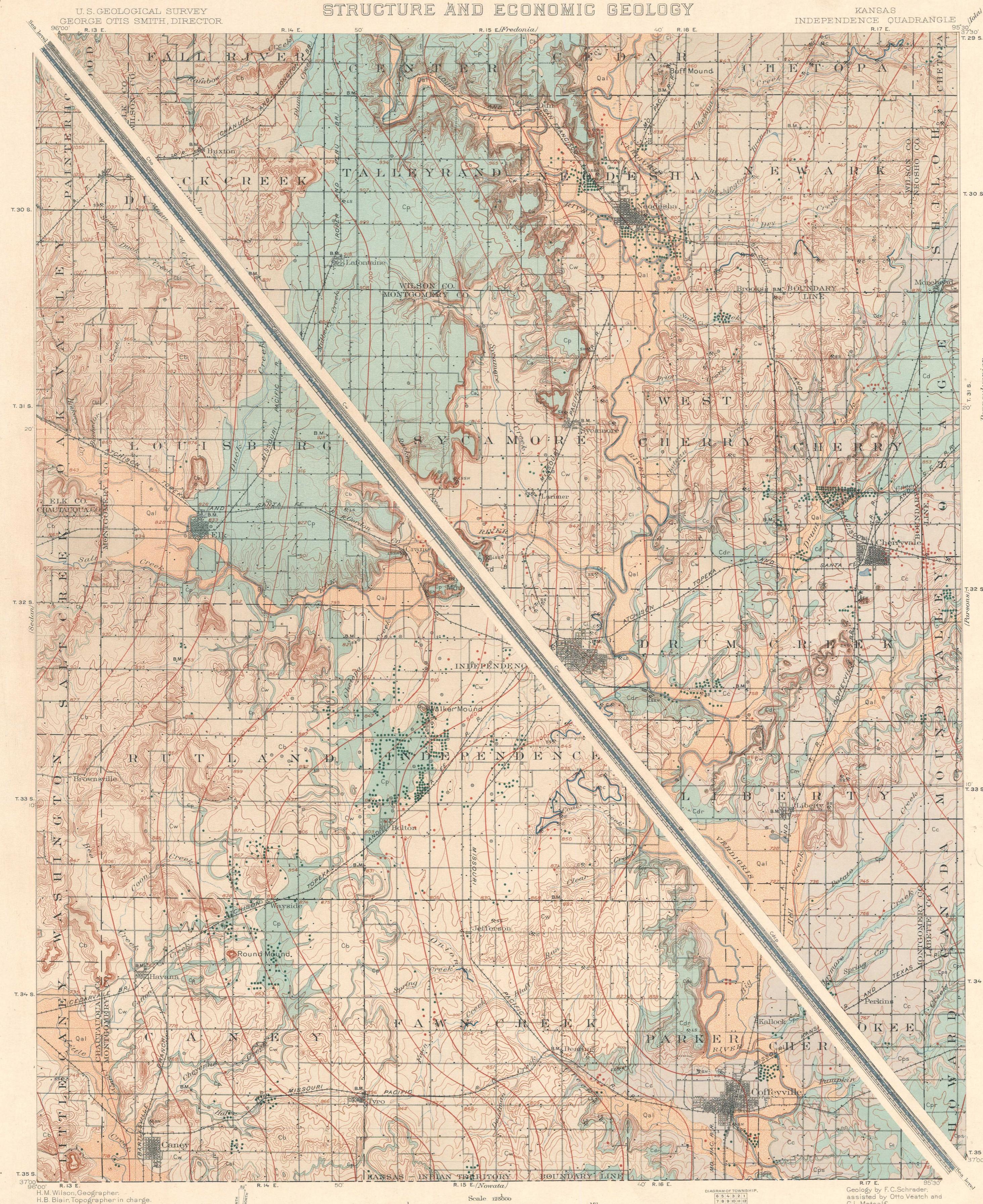


U.S. GEOLOGICAL SURVEY
GEORGE OTIS SMITH, DIRECTOR

STRUCTURE AND ECONOMIC GEOLOGY



LEGEND

SEDIMENTARY ROCKS

SHEET SECTION SYMBOL SYMBOL
Qal Alluvium (bottom land of larger streams)

Ce Elgin sandstone (hard brown ferruginous sandstone)

Co Combined with Buxton formation on section

Oread limestone (reddish-gray, thin-bedded, semicrystalline fossiliferous limestone)

Cb Cbo Buxton formation (shaly, sandy, thin-bedded limestone with few beds of coal and lenses of limestone)

Cb Cbo Wilson formation (principally compact dark shale and gray sandstone, with thin beds of limestone, Ca. Allen, Ca. Jolla, C. and minor, C. M. limestone lenses)

Cdr Cdp Combined with Coffeyville formation on section

Cd Cdp Drum limestone (principally gray to blue, crystalline, massive, and flaggy limestone, with shale, Ca. in southern portion)

Cdm Coffeyville formation (dark shale and interbedded brown Ca. and Mound Valley, C. M. limestone lenses)

Cpr Cps Parson formation (cyclical limestone in part shaly, with dark hard shale, member Cps. near middle)

Cck Cherokee formation (oil and gas horizon)

Cbn Boone limestone (Does not outcrop in quadrangle)

Structure and economic data

100' Structure contours (showing relative elevation from the top of the Boomer limestone, interval, 50 feet)

Cool seams (workable beds in Wilson formation)

- Oil wells
- Gas wells
- Dry holes
- Cement plants
- Quarries, mines, and pits
- Coal
- Sandstone
- Limestone
- LSSM Limestone and shale for cement
- Shale for brick

Note: Map has been cut in two and section inserted

Diagram of Township.
6 5 4 3 2 1
7 8 9 10 11 12
13 14 15 16 17 18
19 20 21 22 23 24
30 29 28 27 26 25
31 32 33 34 35 36
R. 17 E. 35 S. 37 S.

Geology by F.C. Schrader,
assisted by Otto Veatch and
G.L. Metcalf.
Surveyed in 1904.